

#### AMENDMENTS TO THE CLAIMS

1. **(Currently amended)** Monoclonal antibody, ~~or fragments thereof~~, for isolating and/or identifying at least one cell population which is selected from the group consisting of haematopoietic stem cells, neuronal stem cells, neuronal progenitor cells, mesenchymal stem cells and mesenchymal progenitor cells, wherein the antibody, ~~or a fragment thereof~~, binds to an epitope of CUB domain-containing protein 1(CDCP1) antigen which is the same as that bound by an antibody which is produced by the hybridoma cell lines CUB1, CUB2, CUB3 or CUB4, which were deposited in the Deutsche Sammlung fur Mikroorganismen und Zellkulturen [German collection of microorganisms and cell cultures] (DSMZ), in accordance with the Budapest treaty, under the numbers DSM ACC2569, DSM ACC2566 and DSM ACC2565, on 14.08.2002, and DSM ACC2551, on 12.07.2002.
2. **(Currently amended)** Monoclonal antibody, ~~or fragment thereof, of Claim 1~~, which is produced by the hybridoma cell line CUB1, which is deposited in the DSMZ under the number DSM ACC2569.
3. **(Currently amended)** Monoclonal antibody, ~~or fragment thereof, of Claim 1~~, which is produced by the hybridoma cell line CUB2, which is deposited in the DSMZ under the number DSM ACC2566.
4. **(Currently amended)** Monoclonal antibody, ~~or fragment thereof, of Claim 1~~, which is produced by the hybridoma cell line CUB3, which is deposited in the DSMZ under the number DSM ACC2565.
5. **(Currently amended)** Monoclonal antibody, ~~or fragment thereof, of Claim 1~~, which is produced by the hybridoma cell line CUB4, which is deposited in the DSMZ under the number DSM ACC2551.
6. **(Cancelled)**
7. **(Original)** Hybridoma cell line, which produces an antibody according to Claim 2.
8. **(Original)** Hybridoma cell line, which produces an antibody according to Claim 3.
9. **(Original)** Hybridoma cell line, which produces an antibody according to Claim 4.

10. (Original) Hybridoma cell line, which produces an antibody according to Claim 5.

11.-17. (Cancelled)

18. (Currently amended) Pharmaceutical composition comprising at least one monoclonal antibody according to Claim 1, ~~or fragments thereof~~.

19. (Currently amended) Pharmaceutical composition comprising at least one monoclonal antibody according to Claim 2, ~~or fragments thereof~~.

20. (Currently amended) Pharmaceutical composition comprising at least one monoclonal antibody according to Claim 3, ~~or fragments thereof~~.

21. (Currently amended) Pharmaceutical composition comprising at least one monoclonal antibody according to Claim 4, ~~or fragments thereof~~.

22. (Currently amended) Pharmaceutical composition comprising at least one monoclonal antibody according to Claim 5, ~~or fragments thereof~~.

23. (Currently amended) Kit, comprising at least one monoclonal antibody according to Claim 1, ~~or fragments thereof~~.

24. (Currently amended) Kit, comprising at least one monoclonal antibody according to Claim 2, ~~or fragments thereof~~.

25. (Currently amended) Kit, comprising at least one monoclonal antibody according to Claim 3, ~~or fragments thereof~~.

26. (Currently amended) Kit, comprising at least one monoclonal antibody according to Claim 4, ~~or fragments thereof~~.

27. (Currently amended) Kit, comprising at least one monoclonal antibody according to Claim 5, ~~or fragments thereof~~.

28. (New) A fragment of the monoclonal antibody of Claim 2, wherein said fragment is selected from the group consisting of  $F_{ab}$ ,  $F_{(ab')2}$ ,  $F_v$  and CDR, and wherein said fragment retains antigen-binding specificity of said antibody.

29. (New) A fragment of the monoclonal antibody of Claim 3, wherein said fragment is selected from the group consisting of  $F_{ab}$ ,  $F_{(ab')2}$ ,  $F_v$  and CDR, and wherein said fragment retains antigen-binding specificity of said antibody.

Application No.: 10/627,884  
Filing Date.: July 25, 2003

30. (New) A fragment of the monoclonal antibody of Claim 4, wherein said fragment is selected from the group consisting of  $F_{ab}$ ,  $F_{(ab')2'}$ ,  $F_v$  and CDR, and wherein said fragment retains antigen-binding specificity of said antibody.

31. (New) A fragment of the monoclonal antibody of Claim 5, wherein said fragment is selected from the group consisting of  $F_{ab}$ ,  $F_{(ab')2'}$ ,  $F_v$  and CDR, and wherein said fragment retains antigen-binding specificity of said antibody.

32. (New) A pharmaceutical composition comprising the fragment of Claim 28.

33. (New) A pharmaceutical composition comprising the fragment of Claim 29.

34. (New) A pharmaceutical composition comprising the fragment of Claim 30.

35. (New) A pharmaceutical composition comprising the fragment of Claim 31.